

AMENDMENT TO THE SPECIFICATION

Please replace the paragraph appearing on page 8, lines 11-22 with the following amended paragraph:

FIG. 3 is a flowchart illustrating data storage device self-testing according to one embodiment of the present invention. Here, processing begins with determination operation 305. Determination operation 305 comprises selecting and programming boundary parameters of one or more host programmable tests provided with the data storage device. That is, the supplier of the data storage device determines which host programmable tests will be made available on the device to be executable by the data storage device while the data storage device is connected with a host. When executed, the user, via the host with which the data storage device is connected, can select one or more of the test to be executed as well as setting parameters for the execution of those tests. In one example, the type of test to be performed may be indicated by the user setting data in a log in the memory of the data storage device. Additionally, setting parameters for execution of the one or more host programmable tests may be done by the user setting one or more values in a second log in memory of the data storage device.

Please replace the paragraphs appearing on page 9, lines 1-8 with the following amended paragraphs:

Examples of these tests will be discussed below with reference to FIGs. 4-9. Host programmable tests that may be available include, but are not limited to, a Position Error Signal (PES) test, a head error rate test, a read verify reserve track data test, and others as will be discussed below. Control

then passes to query operation 310 315.

Query operation 310 315 comprises determining the mode of operation the selected tests shall be executed in. In some devices, tests may be executed in two modes of operation, such as offline and captive. If at query operation 310 315 a determination is made that the test mode is captive mode, control passes to execute operation 320.

Please replace the paragraph appearing on page 9, lines 12-16 with the following amended paragraph:

If, at query operation 320 315, a determination is made that the test mode is not captive mode, control passes to execute operation 325. Execute operation 325 comprises executing the selected tests in an offline mode. In offline mode tests can be executed and data collected when the data storage device is not servicing host-initiated commands. Control then passes to log operation 330.

Please replace the paragraph beginning on page 9, line 17, and ending on page 10, line 2 with the following amended paragraph:

Log operation 330 comprises writing the data collected during execution of the selected tests to the appropriate vendor specific logs. For example, the self-monitoring program stored in memory in the data storage device may be the Self-Monitoring, Analysis, and Reporting Technology (SMART) program or another similar program. SMART provides a number of vendor specific tests that are not used after manufacture of the device as well as a number of logs stored in the memory of the device. The host programmable tests may be overwritten on these vendor specific tests, at step 310. Additionally, as will be seen below, the

logs may be used to store control information and results for the host programmable tests.